93 2nd half-12-(j) JP

Con. 9785-12.

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Souther Boyumais and Compiler Construction KR-8954

		(3 Hours)   Total Marks:	100
N.B.:		<ol> <li>Question No. 1 is compulsory.</li> <li>Attempt any four questions out of remaining six.</li> <li>Assume suitable data if necessary.</li> <li>Draw diagrams where required.</li> </ol>	
Ι.		Explain with the help of flowchart the working of two-pass assembler along with the databases used. Modify the given grammar and construct a predictive parser table explaining each step: $E \to E + T + T$ $T \to T * V   V$ $V \to id$	
2.		Explain the different error recovery techniques used in compilers.  Detail the different features used in macro processing.	10 10
3.		What is the need of linkage editor in System Programming? Explain its, working in detail.  Explain the working of Recursive Descent Parser and Operator Precedence Parcer with examples.	10 10
4.		Explain Run Time storage Organisation in detail.  Explain the different types of Garbage collection and compaction in compilers.	10 10
5.		Explain with flowchart the working of multipass macroprocessor and the databases used.  What are the different types of intermediate codes? Explain their implementation techniques.	10
6.		Distinguish between:——  (i) Syntax tree and Parse trees  (ii) LL Parser and LR Parser.  Explain the handling of control structures and procedures calls in code generation	10
7.	• /	phase of compilers.  te note on :- any four  (a) Dynamic loading and linking  (b) Java Compiler Environment  (c) SPARC Assembler	20
		(d) Code Optimization Techniques	

(e) Syntax Directed Translation.

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